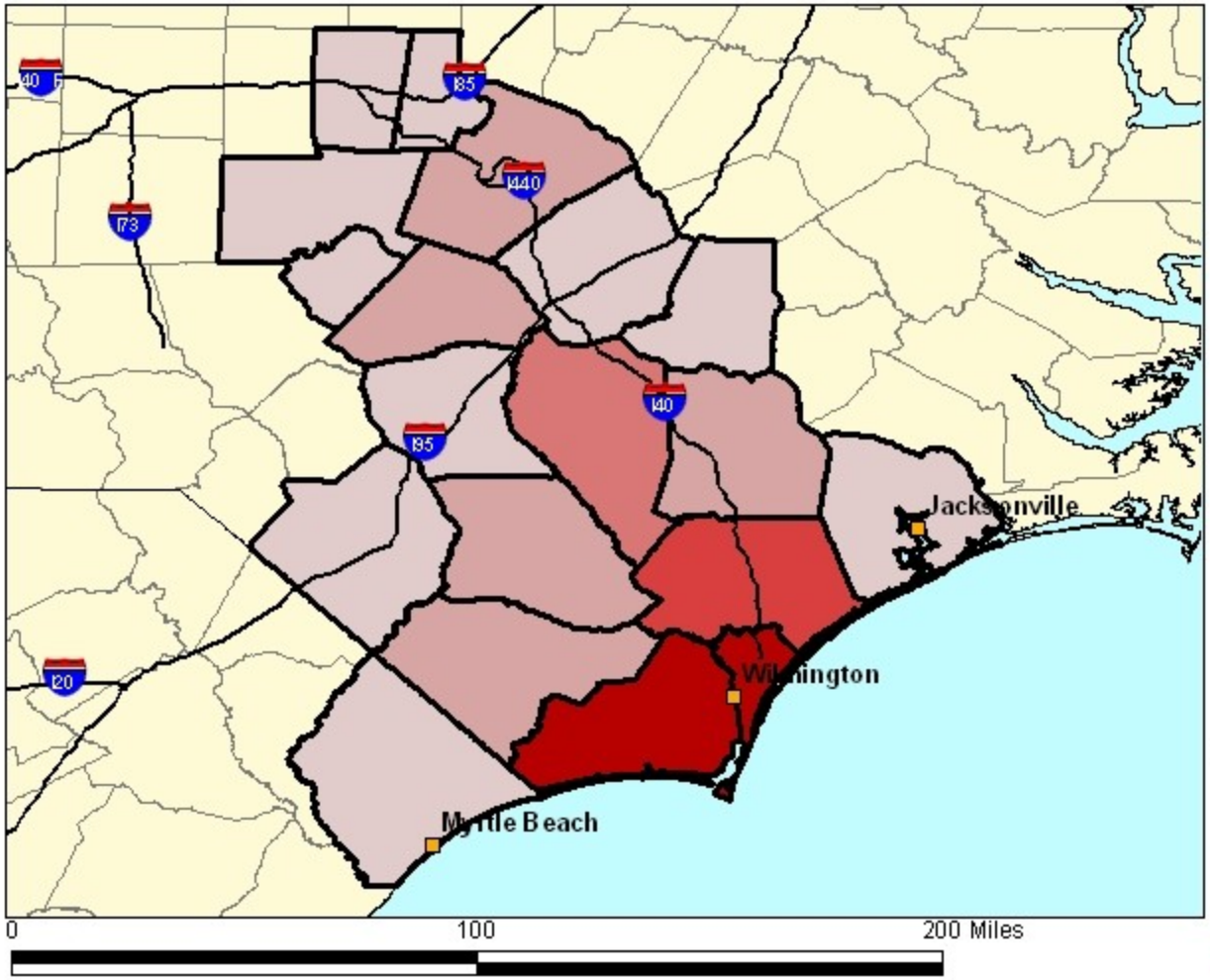
US Army Corps of Engineers

Hurricane Exercise Debris Model

Landfall Expected In About **4** Hours

For Official Use Only!



Post Landfall Debris Model Results

North Carolina - 9,119,000 Yards
South Carolina - 29,000 Yards

Model results per county on following page

This model is based on a Category 3 storm making landfall near Wilmington, NC.

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 3 storm making landfall near Wilmington, NC. These projections are based on information from the NHC (1330 EDT 06/06/2007) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

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US Army Corps of Engineers

Hurricane Exercise Debris Model

Landfall Expected In About **4** Hours

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State	Yards per State	County	Yards per County
North Carolina		Bladen	133,000
		Brunswick	1,650,000
		Chatham	10,000
		Columbus	163,000
		Cumberland	75,000
		Duplin	104,000
		Durham	45,000
		Harnett	111,000
		Johnston	36,000
		Lee	< 1,000
		New Hanover	5,425,000
		Onslow	28,000
		Orange	52,000
		Pender	811,000
		Robeson	< 1,000
		Sampson	357,000
		Wake	114,000
		Wayne	5,000
North Carolina	9,119,000		
South Carolina		Horry	29,000
South Carolina	29,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

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Hurricane Exercise Debris Model

Generated By:
Siemsen, LRL 1400 EDT 06/06/2007

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Exercise Population Model

Landfall Expected In About **4** Hours

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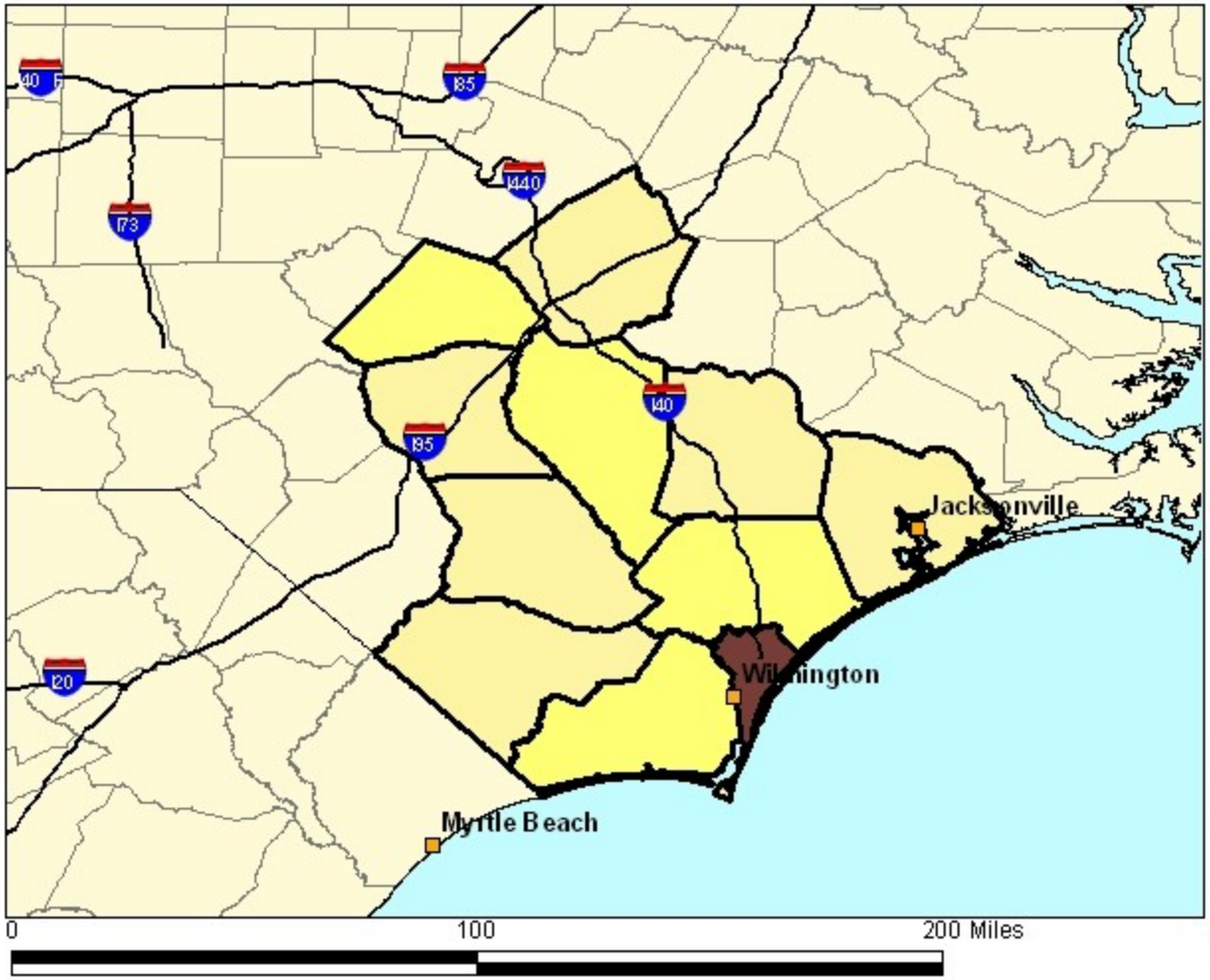

Post Landfall Population Model Results

North Carolina - 464,000

Model results per county on following page

This model is based on a Category 3 storm making landfall near Wilmington, NC.

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 3 storm making landfall near Wilmington, NC. These projections are based on information from the NHC (1330 EDT 06/06/2007) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2005 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Population Model	
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US Army Corps of Engineers

Hurricane Exercise Population Model

Landfall Expected In About **4** Hours

For Official Use Only!

State	Population per State	County	Population per County
North Carolina		Bladen	15,000
		Brunswick	76,000
		Columbus	10,000
		Cumberland	15,000
		Duplin	19,000
		Harnett	36,000
		Johnston	4,000
		New Hanover	180,000
		Onslow	4,000
		Pender	46,000
		Sampson	59,000
North Carolina	464,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2005 values.

Details about this model may be obtained at **https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

Hurricane Exercise Population Model

Generated By:
Siemsen, LRL 1400 EDT 06/06/2007

Sources:
HURREVAC
LRL-DEBRIS

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Hurricane Exercise Households Model

Landfall Expected In About **4** Hours

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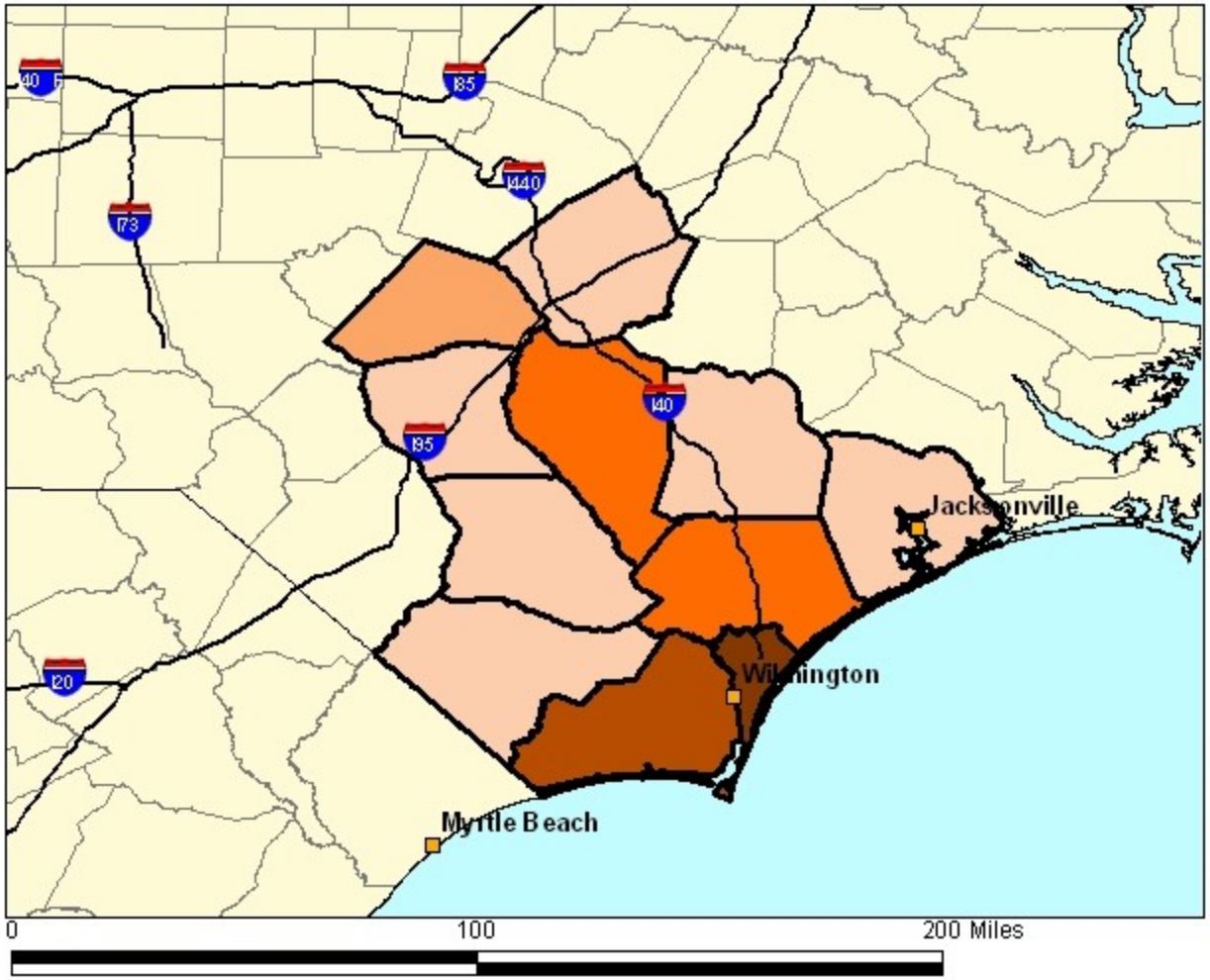

Post Landfall Households Model Results

North Carolina - 191,000

Model results per county on following page

This model is based on a Category 3 storm making landfall near Wilmington, NC.

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 3 storm making landfall near Wilmington, NC. These projections are based on information from the NHC (1330 EDT 06/06/2007) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2005 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Households Model	
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US Army Corps of Engineers

Hurricane Exercise Households Model

Landfall Expected In About **4** Hours

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State	Households per State	County	Households per County
North Carolina		Bladen	6,000
		Brunswick	32,000
		Columbus	4,000
		Cumberland	6,000
		Duplin	8,000
		Harnett	14,000
		Johnston	2,000
		New Hanover	77,000
		Onslow	2,000
		Pender	18,000
		Sampson	22,000
North Carolina	191,000		

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2005 values.

Details about this model may be obtained at https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

Hurricane Exercise Households Model

Generated By:
Siemsen, LRL 1400 EDT 06/06/2007

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Exercise Commodities Model

Landfall Expected In About **4** Hours

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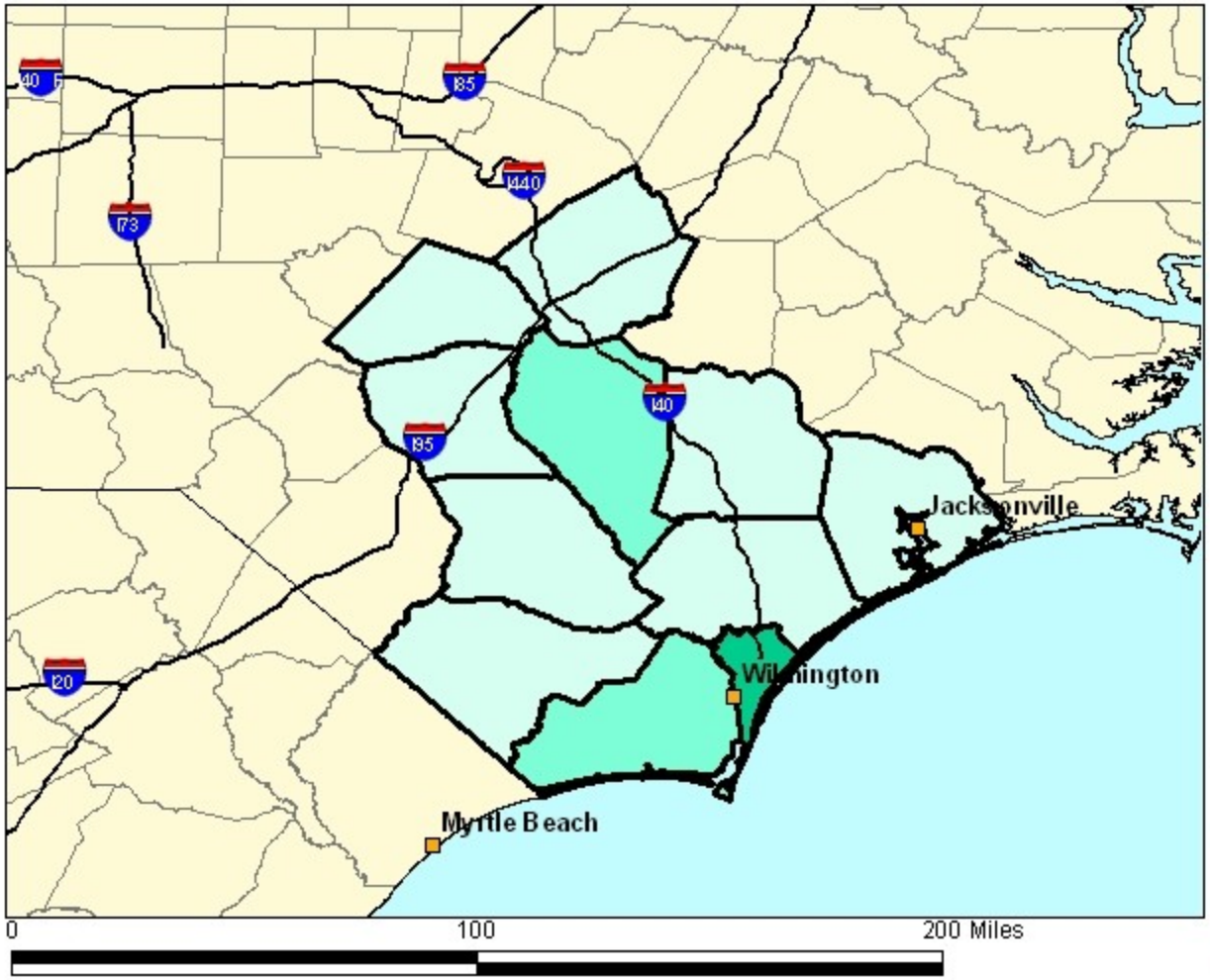

Post Landfall Ice/Water Model Results

Day One / Day Two / Day Three
NC – 11/22/43 Truckloads

Model results per county on following page

This model is based on a Category 3 storm making landfall near Wilmington, NC.

Commodities

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 3 storm making landfall near Wilmington, NC. These projections are based on information from the NHC ***(1330 EDT 06/06/2007)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements (8 pounds of ice per person per day) and SME input. The graphic represents single day needs with full distribution system in place and operating.
Details about this model may be obtained at **https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

Hurricane Exercise Commodities Model	
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Sources: HURREVAC LRL-DEBRIS	Page 7 of 12

US Army Corps of Engineers

Hurricane Exercise Commodities Model

Landfall Expected In About **4** Hours

For Official Use Only!

State	Truckloads per State	County	Truckloads per County
North Carolina		Bladen	2
		Brunswick	7
		Columbus	1
		Cumberland	2
		Duplin	2
		Harnett	3
		Johnston	1
		New Hanover	15
		Onslow	1
		Pender	4
		Sampson	5
North Carolina	43		

The amount of commodities forecasted is based on Mission Guide Book requirements (8 pounds of ice per person per day) and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system. The assumption in this scenario is that 40% of the resident population affected by the hurricane will have power outage in this area and cause a need for ice and water.

Details about this model may be obtained at **https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

Hurricane Exercise Commodities Model

Generated By:
Siemsen, LRL 1400 EDT 06/06/2007

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Exercise Temporary Housing Model

US Army Corps of Engineers

Landfall Expected In About **4** Hours

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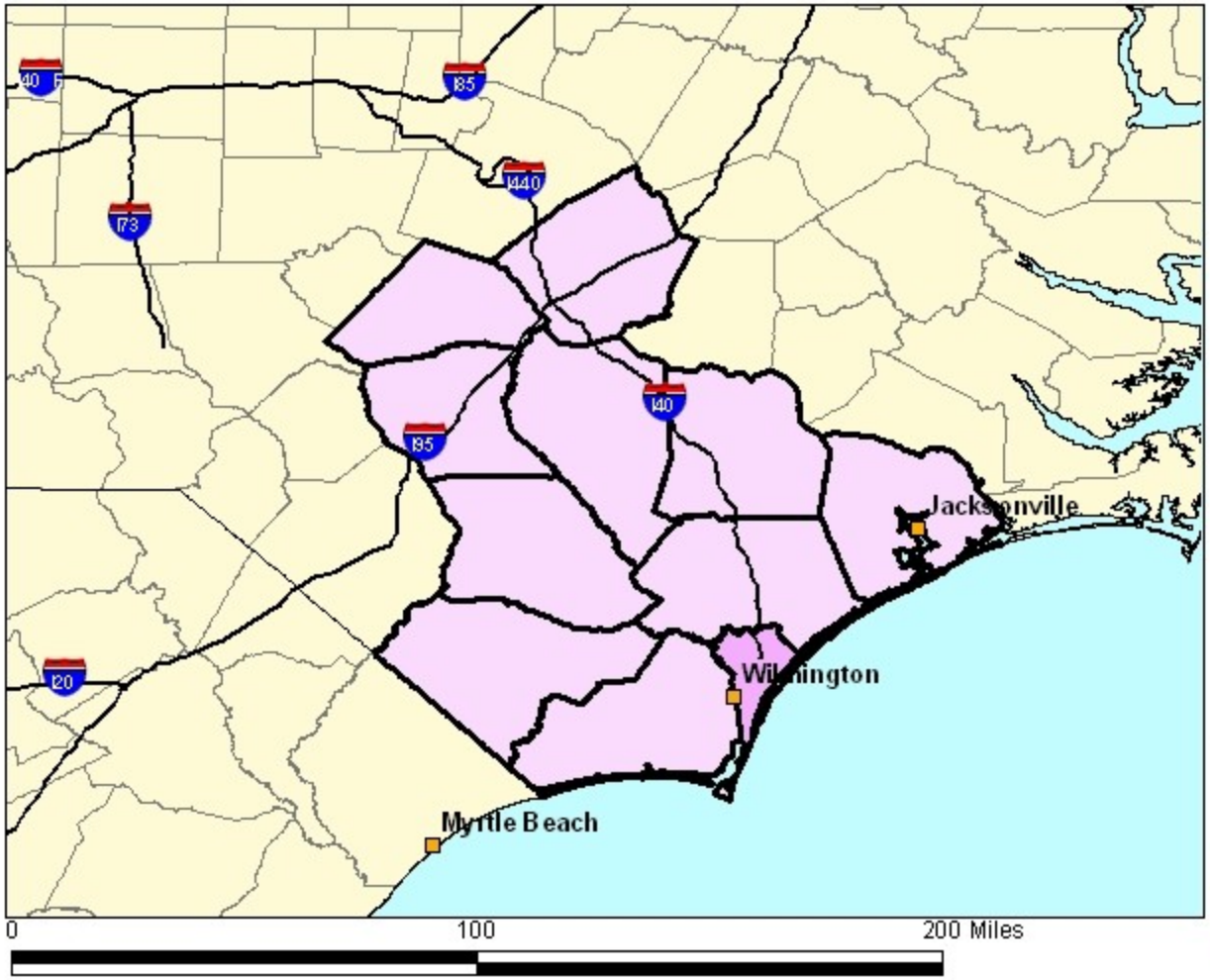

Post Landfall Temporary Housing Model Results

North Carolina - 6,500

Model results per county on following page

This model is based on a Category 3 storm making landfall near Wilmington, NC.

Temporary Housing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 3 storm making landfall near Wilmington, NC. These projections are based on information from the NHC (1330 EDT 06/06/2007) forecast. Temporary housing is based on 1% in CAT 1, 3% in CAT 2 and 5% in CAT 3.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Housing Model	
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US Army Corps of Engineers

Hurricane Exercise Temporary Housing Model

Landfall Expected In About **4** Hours

For Official Use Only!

State	per State	County	per County
North Carolina		Bladen	200
		Brunswick	1,200
		Columbus	200
		Cumberland	< 100
		Duplin	200
		Harnett	200
		Johnston	< 100
		New Hanover	3,400
		Onslow	< 100
		Pender	700
		Sampson	400
North Carolina	6,500		

THIS IS AN EXPERIMENTAL MODEL!!

Temporary housing is based on 1% in CAT 1, 3% in CAT 2 and 5% in CAT 3.

Details about this model may be obtained at https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

Hurricane Exercise Housing Model

Generated By:
Siemsen, LRL 1400 EDT 06/06/2007

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Exercise Temporary Roofing Model

US Army Corps of Engineers

Landfall Expected In About **4** Hours

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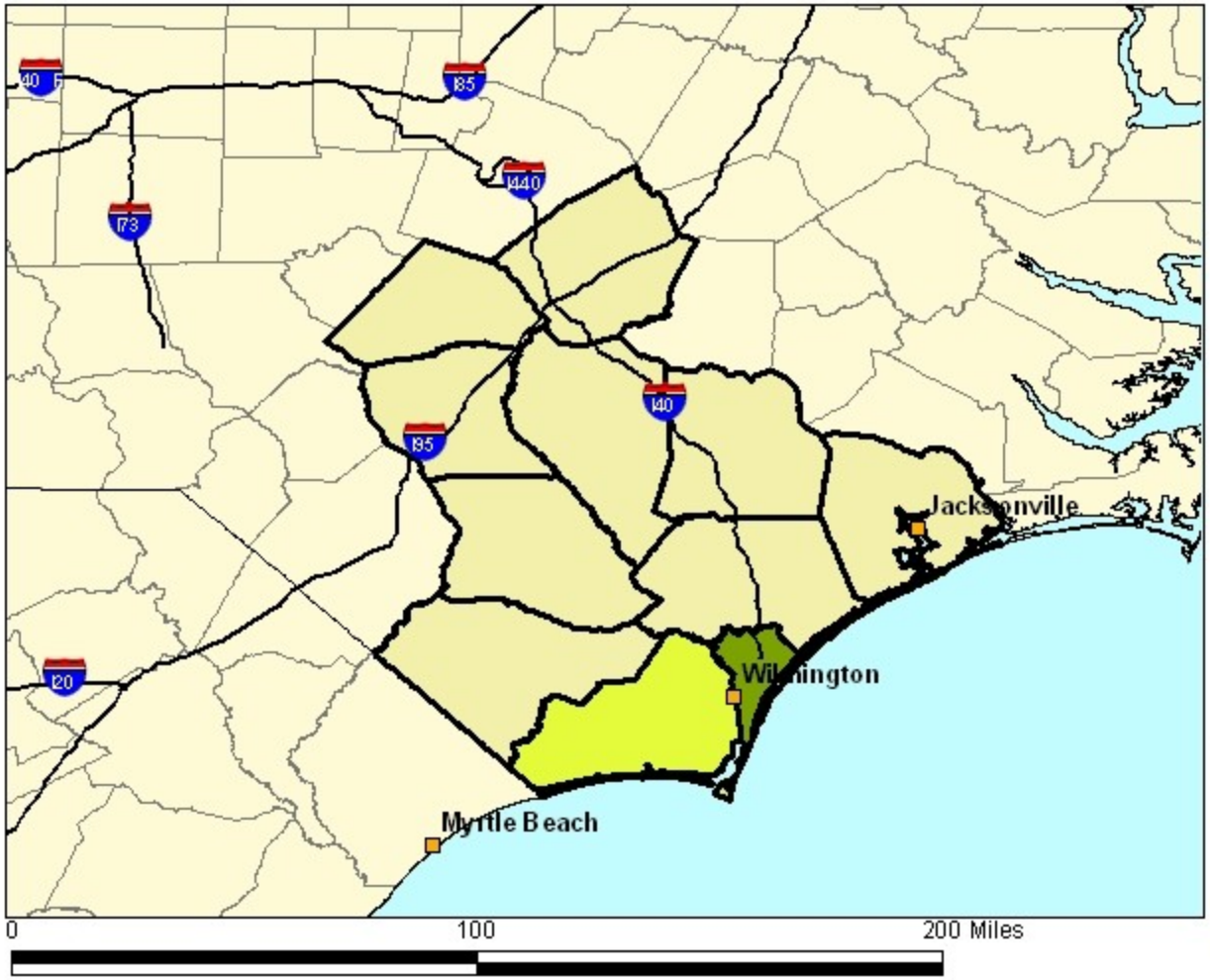

Post Landfall Temporary Roofing Model Results

North Carolina - 13,600

Model results per county on following page

This model is based on a Category 3 storm making landfall near Wilmington, NC.

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 3 storm making landfall near Wilmington, NC. These projections are based on information from the NHC (1330 EDT 06/06/2007) forecast. Temporary roofing is based on 2% in CAT 1, 6% in CAT 2 and 10% in CAT 3.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

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Sources: HURREVAC LRL-DEBRIS	Page 11 of 12

US Army Corps of Engineers

Hurricane Exercise Temporary Roofing Model

Landfall Expected In About **4** Hours

For Official Use Only!

State	House Units per State	County	House Units per County
North Carolina		Bladen	300
		Brunswick	2,400
		Columbus	300
		Cumberland	200
		Duplin	300
		Harnett	300
		Johnston	< 100
		New Hanover	7,700
		Onslow	< 100
		Pender	1,300
		Sampson	800
North Carolina	13,600		

THIS IS AN EXPERIMENTAL MODEL!!

Temporary roofing is based on 2% in CAT 1, 6% in CAT 2 and 10% in CAT 3.

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Hurricane Exercise Roofing Model

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Sources:
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LRL-DEBRIS